

PTO-1449 REPRODUCED

ATTORNEY DOCKET NO.
1855.1032-004APPLICATION NO.
09/870,932INFORMATION DISCLOSURE CITATION
IN AN APPLICATIONAPPLICANT
Lijun Wu and Charles R. MackayFILING DATE
May 30, 2001GROUP
1644

September 17, 2001

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JIR	AA	5,939,320	08/17/99	Littman, et al.	435	325	
	AB	5,994,515	11/30/99	Hoxie	530	388.22	
	AC	5,440,021	08/08/95	Chuntharapai, et al.	530	388.22	
	AD	5,543,503	08/06/96	Chuntharapai, et al.	530	388.22	
JIR	AE	6,025,154	15/02/00	Li, et al.	435	69.1	
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES	NO
JIR	AL	WO 95/08576	30 Mar 95	PCT (Abstract Only)				X
JIR	AM	DE 4332256c1	09 Mar 95	Germany				X
JIR	AN	WO 96/39437	12 Dec 96	PCT				
JIR	AO	WO 97/22698	26 Jun 97	PCT				
JIR	AP	WO 97/26009	24 Jul 97	PCT				
JIR	AQ	WO 97/32019	04 Sep 97	PCT				
JIR	AL2	WO 97/45543	04 Dec 97	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JIR	AR	Dean, M., et al., "Genetic Restriction of HIV-1 Infection and Progression to AIDS by a Deletion Allele of the CKR5 Structural Gene", Science, 273:1856-1862 (1996).
JIR	AS	Liu, R., et al., "Homozygous Defect in HIV-1 Coreceptor Accounts for Resistance of Some Multiply-Exposed Individuals to HIV-1 Infection", Cell, 86:367-377 (1996).
JIR	AT	Bates, P., "Chemokine Receptors and HIV-1: An Attractive Pair?", Cell 86:1-3 (1996).

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11/8/02 * 6/20/03

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
am	AM2, WO 98/05798	12 Feb 98	PCT			
mr	AN2, WO 98/44953	15 Oct 98	PCT			
mr	AO2, WO 99/15666	01 Apr 99	PCT			

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Jue*	AU	Choe, H., et al., "The β -Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates", <i>Cell</i> , 85:1135-1148 (1996).
Jue	AV	Samson, M., et al., "Molecular Cloning and Functional Expression of a New Human CC-Chemokine Receptor Gene", <i>Biochemistry</i> , 35:3362-3367 (1996).
JR	AW	Raport, C.J., et al., "Molecular Cloning and Functional Characterization of a Novel Human CC Chemokine Receptor (CCR5) for RANTES, MIP-1 β , and MIP-1 α ", <i>Jour. of Biol. Chem.</i> , 271(29):17161-17166 (1996).
Jue*	AX	Boring, L., et al., "Molecular Cloning and Functional Expression of Murine JE (Monocyte Chemoattractant Protein 1) and Murine Macrophage Inflammatory Protein 1 α Receptors", <i>Jour. of Biol. Chem.</i> , 271(13):7551-7558 (1996).
Jue*	AY	Weiss, R.A. and Clapham, P.R., "Hot Fusion of HIV", <i>Nature</i> , 381:647-648 (1996).
Jue	AZ	Deng, H., et al., "Identification of a Major Co-Receptor for Primary Isolates of HIV-1", <i>Nature</i> , 381:661-666 (1996).
Jue	AR2	Dragic, T., et al., "HIV-1 Entry Into CD4 ⁺ Cells is Mediated by the Chemokine Receptor CC-CKR-5", <i>Nature</i> , 381:667-673 (1996).
Jue*	AS2	Hill, C.M., and Littman, D.R., "Natural Resistance to HIV?", <i>Nature</i> , 382:668-669 (1996).

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AT2	Samson, M., et al., "Resistance to HIV-1 Infection in Caucasian Individuals Bearing Mutant Alleles of the CCR-5 Chemokine Receptor Gene", <i>Nature</i> , 382:722-725 (1996).
AU2	Doranz, B.J., et al., "A Dual-Tropic Primary HIV-1 Isolate That Uses Fusin and the β -Chemokine Receptors CKR-5, CKR-3, and CKR-2b as Fusion Cofactors", <i>Cell</i> 85:1149-1158 (1996).
AV2	Feng, Y., et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor", <i>Science</i> , 272:872-877 (1996).
AW2	Cocchi, F., et al., "Identification of RANTES, MIP-1 α , and MIP-1 β as the Major HIV-Suppressive Factors Produced by CD8 ⁺ T Cells", <i>Science</i> , 270:1811-1815 (1995).
AX2	Alkhatib, G., et al., "CC CKR5: A RANTES, MIP-1 α , MIP-1 β Receptor as a Fusion Cofactor for Macrophage-Tropic HIV-1", <i>Science</i> , 272:1955-1958 (1996).
AY2	Förster, R., et al., "A General Method for Screening mAbs Specific for G-Protein Coupled Receptors as Exemplified by Using Epitope Tagged BLR1-transfected 293 Cells and Solid-phase Cell ELISA", <i>Biochem. Biophys. Res. Commun.</i> , 196(3):1496-1503 (1993).
AZ2	Raport, C.J., et al., "New Members of Chemokine Receptor Gene Family", <i>J. of Leukocyte Biol.</i> , 59:18-23 (1996).
AR3	Combadiere, C., et al., "Cloning and Functional Expression of a Human Eosinophil CC Chemokine Receptor", <i>The Jour. of Biol. Chem.</i> 270(27):16491-16494 (1995)

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JWR*	AS3	Wasniowska, K., et al., "Identification of the Fy6 Epitope Recognized by Two Monoclonal Antibodies in the N-Terminal Extracellular Portion of the Duffy Antigen Receptor for Chemokines", <i>Molec. Immunol.</i> , 33(11/12):917-923 (1996).
JWR	AT3	Combadiere, C., et al., "Cloning and Functional Expression of CC CKR5, A Human Monocyte CC Chemokine Receptor Selective for MIP-1 α , MIP-1 β , and RANTES", <i>J. of Leukocyte Biol.</i> , 60:147-152 (1996).
JWR	AU3	Ponath, P.D., et al., "Molecular Cloning and Characterization of a Human Eotaxin Receptor Expressed Selectively on Eosinophils", <i>J. Exp. Med.</i> 183:2437-2448 (1996).
JWR*	AV3	Rudikoff, S., et al., "Single-Amino-Acid Substitution Altering Antigen-binding Specificity," <i>Proc. Natl. Acad. Sci. USA</i> , 79:1979-1983 (1982).
JWR*	AW3	Wildner, G. and Thureau, S.R., "Database Screening for Molecular Mimicry," <i>Immunology Today</i> , 18(5):252-253 (1997).
JWR*	AX3	Berzofsky, J.A. and Berkower, I.J., "Immunogenicity and Antigen Structure," In <i>Fundamental Immunology</i> , Second Edition, W.E. Paul, ed. (NY: Raven Press Ltd.) pp. 169-208 (1989).
JWR*	AY3	Neote, K., et al., "Molecular Cloning, Functional Expression, and Signaling Characteristics of a C-C Chemokine Receptor", <i>Cell</i> , 72:415-425 (1993).
JWR*	AZ3	Endres, M.J., et al., "CD4-Independent Infection by HIV-2 Is Mediated by Fusin/CXCR4", <i>Cell</i> , 87:745-756 (1996).
JWR*	AR4	Su, S., et al., "Preparation of Specific Polyclonal Antibodies to a C-C Chemokine Receptor, CCR1, and Determination of CCR1 Expression on Various Types of Leukocytes", <i>J. of Leukocyte Biol.</i> , 60:658-666 (1996).

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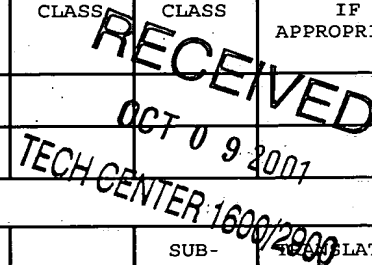
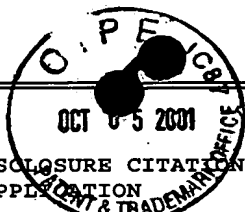
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AS4	Wu, Lijun, et al., "Interaction of Chemokine Receptor CCR5 with its Ligands: Multiple Domains for HIV-1 gp120 Binding and a Single Domain for Chemokine Binding", <i>J. Exp. Med.</i> , 186(8):1373-1381 (1997).
AT4	Wu, Lijun, et al., "CCR5 Levels and Expression Pattern Correlate with Infectability by Macrophage-tropic HIV-1, In Vitro", <i>J. Exp. Med.</i> , 185(9):1681-1691 (1997).
AU4	Bleul, Conrad C., et al., "The HIV Coreceptors CXCR4 and CCR5 are Differentially Expressed and Regulated on Human T Lymphocytes", <i>Proc. Natl. Acad. Sci. USA</i> , 94:1925-1930 (1997).
AV4	Doranz, Benjamin J., et al., "Two Distinct CCR5 Domains Can Mediate Coreceptor Usage by Human Immunodeficiency Virus Type 1", <i>Journal of Virology</i> , 71(9):6305-6314 (1997).
AW4	Chuntharapai, A., et al., "Generation of Monoclonal Antibodies to Chemokine Receptors", <i>Methods in Enzymology</i> 288: 15-27 (1997).
AX4	Osbourne, J., et al., "Directed selection of MIP-1 α neutralizing CCR5 antibodies from a phage display human antibody library", <i>Nature Biotechnology</i> , 16:778/781 (1998).
AY4	Li, Y., et al., "Antibodies to Human G-Protein Chemokine Receptor HDGMR10 (CCR5 Receptor)" U.S. Patent Application Publication No.: US2001/0000241A1, Publication Date: April 12, 2001, Application No. 09/725,285, Filed November 29, 2000.
AZ4	Zlotnik, A. and Yoshie, O., "Chemokines: A New Classification System and Their Role in Immunity," <i>Immunity</i> , 12:121-127 (2000).
AR5	Mackay, C.R., "Chemokines: immunology's high impact factors", <i>Nature Immunol.</i> 2:95-101 (2001).

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INFORMATION DISCLOSURE CITATION
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September 17, 2001

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JVE*	AS5	Emrich, T., et al., "New monoclonal antibody against leucocyte specific G protein coupled receptor - useful e.g. as antiinflammatory agent and for diagnosis of immune status, tumours, etc.," Abstract for reference DE 4332256C1 (AM).

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**SUPPLEMENTAL INFORMATION DISCLOSURE
CITATION
IN AN APPLICATION**

March 25, 2002

(See several sheets if necessary)

APPLICANT
Lijun Wu and Charles R. Mackay

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EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
JAR	AF	6,057,102	05/02/00	Landau, et al.	435	5	

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JAR	AP2	WO 97/41225	06 NOV 97	PCT			
	AQ2	WO 97/44055	27 NOV 97	PCT			
	AL3	WO 97/47319	18 DEC 97	PCT			
	AM3	WO 98/00535	08 JAN 98	PCT			
	AN3	WO 98/18826	07 MAY 98	PCT			
	AO3	WO 98/54317	03 DEC 98	PCT			
JAR	AP3	WO 00/53633	14 SEP 00	PCT			X

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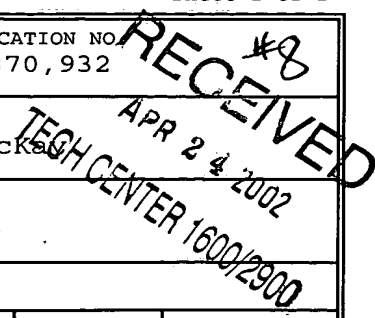
JAR	AT5	Thompson, S.D., et al., "Chemokine Receptor CCR4 on CD4 ⁺ T Cells in Juvenile Rheumatoid Arthritis Synovial Fluid Defines a Subset of Cells with Increased IL-4 IFN- γ mRNA Ratios ¹ ," <i>J. of Immunology</i> , 166(11): 6899-6906 (2001).					
JAR	AU5	Lee, B., et al., "Epitope Mapping of CCR5 Reveals Multiple Conformational States and Distinct but Overlapping Structures Involved in Chemokine and Coreceptor Function", <i>J. of Biol. Chem.</i> , 274(14):9617-9626 (1999).					
JAR	AV5	Hill, C.M., et al., "The Amino Terminus of Human CCR5 is Required for its Function as a Receptor for Diverse Human and Simian Immunodeficiency Virus Envelope Glycoproteins", <i>Virology</i> , 248:357-371 (1998).					
JAR	AW5	Olson, W.C., et al., "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, gp120 Binding, and CC-Chemokine Activity by Monoclonal Antibodies to CCR5", <i>J. of Virology</i> , 73(5):4145-4155 (1999).					
JAR	AX5	Gosling, J., et al., "Molecular Uncoupling of C-C Chemokine Receptor 5-Induced Chemotaxis and Signal Transduction from HIV-1 Coreceptor Activity", <i>Proc. National Acad. Sci. USA</i> , 94:5061-5066 (1997).					

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